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JP9145947A2: FIXING JIG AND METHOD FOR ADHESION AND FIXATION

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June 6, 1997 / Nov. 21, 1995

JP1995000302918

G02B 6/24; G02B 6/40;

Problem to be solved: To easily handle a small-sized transparent plate and enable high- precision positioning by providing a recessed part which has a depth less than the thickness of a transparent plate and contains the transparent plate at the center part of a plate type component and a through hole at a part of the recessed part.
Solution: The recessed part which has a depth less than the thickness of the glass plate 1 and contains the glass plate 1 is formed on the reverse surface of the center part of the fixing jig 6 and the through hole 8 which penetrates the fixing jig 6 is provided at a part of the recessed part. The fixing jig 6 and glass plate 1 which are held by vacuum suction pads 10-1 to 10-3 are moved and the glass plate part is positioned above optical fibers 3 arrayed in grooves on a substrate 2, and the glass plate 1 is pressed against the optical fibers 3. Then, the vacuum suction pads 10 are released the retract them, and an ultraviolet-ray-setting adhesive is injected between the glass plate 1 and substrate 2 and set by irradiation with ultraviolet rays through the through hole 8. After the adhesive is set, only the fixing jig 6 is sucked and collected. Consequently, the optical fibers 3 can be fixed between the substrate 2 and glass plate 1.

DERABS G97-354422 DERG97-354422

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(71) Applicant: **NIPPON TELEGR & T <NTT>**

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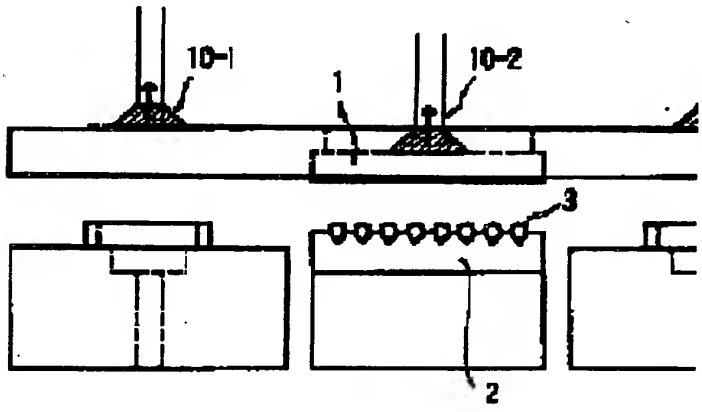
(54) FIXING JIG AND METHOD FOR ADHESION AND FIXATION

(57) Abstract:

PROBLEM TO BE SOLVED: To easily handle a small-sized transparent plate and enable high-precision positioning by providing a recessed part which has a depth less than the thickness of a transparent plate and contains the transparent plate at the center part of a plate type component and a through hole at a part of the recessed part.

SOLUTION: The recessed part which has a depth less than the thickness of the glass plate 1 and contains the glass plate 1 is formed on the reverse surface of the center part of the fixing jig 6 and the through hole 8 which penetrates the fixing jig 6 is provided at a part of the recessed part. The fixing jig 6 and glass plate 1 which are held by vacuum suction pads 10-1 to 10-3

(a)



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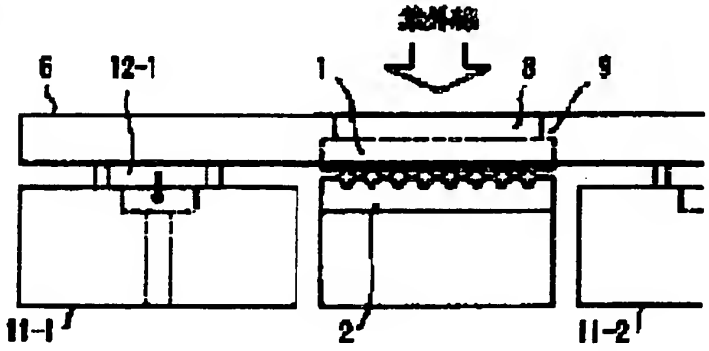

vacuum suction pads 10-1 to 10-3 are moved and the glass plate part is positioned above optical fibers 3 arrayed in grooves on a substrate 2, and the glass plate 1 is pressed against the optical fibers 3. Then, the vacuum suction pads 10 are released the retract them, and an ultraviolet-ray-setting adhesive is injected between the glass plate 1 and substrate 2 and set by irradiation with ultraviolet rays through the through hole 8. After the adhesive is set, only the fixing jig 6 is sucked and collected. Consequently, the optical fibers 3 can be fixed between the substrate 2 and glass plate 1.